

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

Sub B1

~~A water-based paint composition, comprising:~~

- (a) an opacifying agent;
- (b) a viscosity enhancing agent;
- (c) a surfactant;
- (d) a polymeric binding agent; and
- (e) a debonding agent active on metal surfaces.

2. The composition of Claim 1 further comprising at least one of a preservative, an optical brightener, a plasticizer, a dispersing aid, a coalescing aid, and a defoaming agent.

3. The composition of Claim 1, wherein the opacifying agent comprises titanium dioxide.

4. The composition of Claim 1, wherein the viscosity enhancing agent is at least one of a soluble nonionic polysaccharide and a suspended particle-type viscosity enhancing agent.

5. The composition of Claim 4, wherein the soluble nonionic polysaccharide is at least one of hydroxyethylcellulose and carboxymethylcellulose.

6. The composition of Claim 4, wherein the suspended particle-type viscosity enhancing agent comprises fumed silica.

7. The composition of Claim 1, wherein the surfactant is at least one of a nonionic surfactant and an anionic surfactant.

8. The composition of Claim 7, wherein the anionic surfactant comprises a salt derived from morpholine and a long-chain carboxylic acid.

9. The composition of Claim 8, wherein the long-chain carboxylic acid is at least one of stearic acid, palmitic acid, and myristic acid.

10. The composition of Claim 1, wherein the polymeric binding agent comprises a latex having a glass transition temperature greater than about 25°C.

Sub 1
11. The composition of Claim 10, wherein the latex comprises a copolymer of butylacrylate and methyl methacrylate.

~~12. The composition of Claim 11, wherein the copolymer has a glass transition temperature of about 32°C.~~

13. The composition of Claim 11, wherein the copolymer has a pH from about 8 to about 9.

14. The composition of Claim 1, wherein the debonding agent is at least one of a vegetable oil and a silicone oil.

Sub B2
15. The composition of Claim 14, wherein the vegetable oil is at least one of soybean oil, corn oil, sunflower oil, castor oil, rapeseed oil, linseed oil, sunflower seed oil, and safflower oil.

16. The composition of Claim 1, wherein the composition exhibits no sediment formation for about at least two months when stored at about 20°C.

Sub C5
17. The composition of Claim 1, wherein the composition exhibits no phase separation for about at least two months when stored at about 20°C.

18. The composition of Claim 1, wherein the composition is spreadable at rate of from about 50 to about 300 g/m².

19. The composition of Claim 1, wherein the opacifying agent is present in the composition in an amount from about 0.5 to about 35 percent by weight based on the total weight of the composition.

20. The composition of Claim 1, wherein the viscosity enhancing agent is present in the composition in an amount from about 0.5 to about 10 percent by weight based on the total weight of the composition.

21. The composition of Claim 1, wherein the surfactant is present in the composition in an amount from about 0.5 to about 5 percent by weight based on the total weight of the composition.

Sub C5

22. The composition of Claim 1, wherein the polymeric binding agent is present in the composition in an amount from about 3 to about 30 percent by weight based on the total weight of the composition.

23. The composition of Claim 1, wherein the debonding agent is present in the composition in an amount from about 10 to about 50 percent by weight based on the total weight of the composition.

Sub B3

24. A water-based paint composition, comprising:

- (a) an opacifying agent comprising titanium dioxide;
- (b) a viscosity enhancing agent comprising hydroxyethylcellulose;
- (c) a surfactant comprising a salt derived from morpholine and a long-chain carboxylic acid;
- (d) a polymeric binding agent comprising acrylic latex; and
- (e) a debonding agent active on metal surfaces comprising soybean oil.

25. The composition of Claim 24 further comprising a preservative, a dispersing aid, a defoaming agent, and a coalescing agent.

26. The composition of Claim 24, wherein the composition exhibits no sediment formation for about at least two months when stored at about 20°C.

27. The composition of Claim 24, wherein the composition exhibits no phase separation for about at least two months when stored at about 20°C.

28. The composition of Claim 24, wherein the composition is spreadable at rate of from about 50 to about 300 g/m².

29. A method for labeling an oriented strandboard panel bundle, comprising:

- (a) placing a stencil against a side of an oriented strandboard panel bundle, wherein the bundle comprises a stack of oriented strandboard panels and each panel having an exposed edge;
- (b) applying a paint composition to the exposed edges of the oriented strandboard panels by spraying the composition through the stencil; wherein the composition comprises a water-based paint composition, comprising:

- (i) an opacifying agent;

8WP C5

cont.

- (ii) a viscosity enhancing agent;
- (iii) a surfactant;
- (iv) a polymeric binding agent; and
- (v) a debonding agent active on metal surfaces; and

(c) removing the stencil from the unit.

30. The method of Claim 29, wherein the composition is applied at a spread rate of from about 50 to about 300 g/m².